

WHAT IS CLAIMED IS:

1. A composite display device comprising a first display member and a second display member disposed between the first display member and an observation point wherein the second display member comprises an electro-optical element which transmits light under application of no voltage and scatters light under application of a voltage, and the light transmittance under application of no voltage is at least 80%.
- 10 2. The composite display device according to Claim 1, wherein the haze value in a light scattering state is at least 80%.
3. The composite display device according to Claim 1, wherein the first display member is a mirror or a gauge.
- 15 4. The composite display device according to Claim 1, wherein the first display member is a person or a physical body.
5. The composite display device according to Claim 1, wherein a plurality of second display members are arranged.
- 20 6. The composite display device according to Claim 5, wherein the plurality of second display members display the same display pattern, and when a second display member is in a display state, another second display member is in a non-display state.
- 25 7. The composite display device according to Claim 1, wherein the electro-optical element comprises a pair of

substrates with transparent electrodes and a composite layer interposed therebetween, and the composite layer comprises a liquid crystal/cured resin composite containing liquid crystal and a cured product of a  
5 curable compound soluble to the liquid crystal.

8. The composite display device according to Claim 1, wherein the portion excluding a connecting portion to an external circuit formed in a peripheral portion of the electro-optical element, is transparent.

10 9. The composite display device according to Claim 1, wherein there are provided an illumination means and a battery for applying a driving voltage to the electro-optical element.

10. The composite display device according to Claim 1,  
15 wherein an antireflection film or an ultraviolet ray shielding film is disposed on the surface of the electro-optical element.

11. The composite display device according to Claim 1, wherein the electro-optical element comprises a pair of  
20 substrates with transparent electrodes and a composite layer comprising liquid crystal and a cured product of a curable compound soluble to the liquid crystal, the composite layer being interposed between said pair of substrates, and adhesive spacers arranged in the  
25 composite layer.

12. The composite display device according to Claim 1, wherein:

light sources are provided to illuminate the electro-optical element, and

the light sources emit at least two light source colors, wherein the light sources emit the light source colors

5 sequentially, the frequency of each colored light from the light sources is at least 40Hz, and at least a portion of the display region of the electro-optical element is rendered to be a light scattering state in association with illumination by one or a plurality of  
10 light source colors to the electro-optical element to thereby provide a display color comprising one or plurality of light source colors.

13. The composite display device according to Claim 12, wherein the light sources are able to emit a color of red,  
15 blue or green independently.

14. The composite display device according to Claim 12, wherein the display color comprises at least 8 colors.

15. A method for driving the composite display device described in Claim 1, characterized in that a field  
20 sequential driving method wherein a change of light source colors of the light sources is associated with a display state of the electro-optical element, is used.

16. The method according to Claim 15, wherein the composite display device is used for at least displaying  
25 a speed of an automobile.